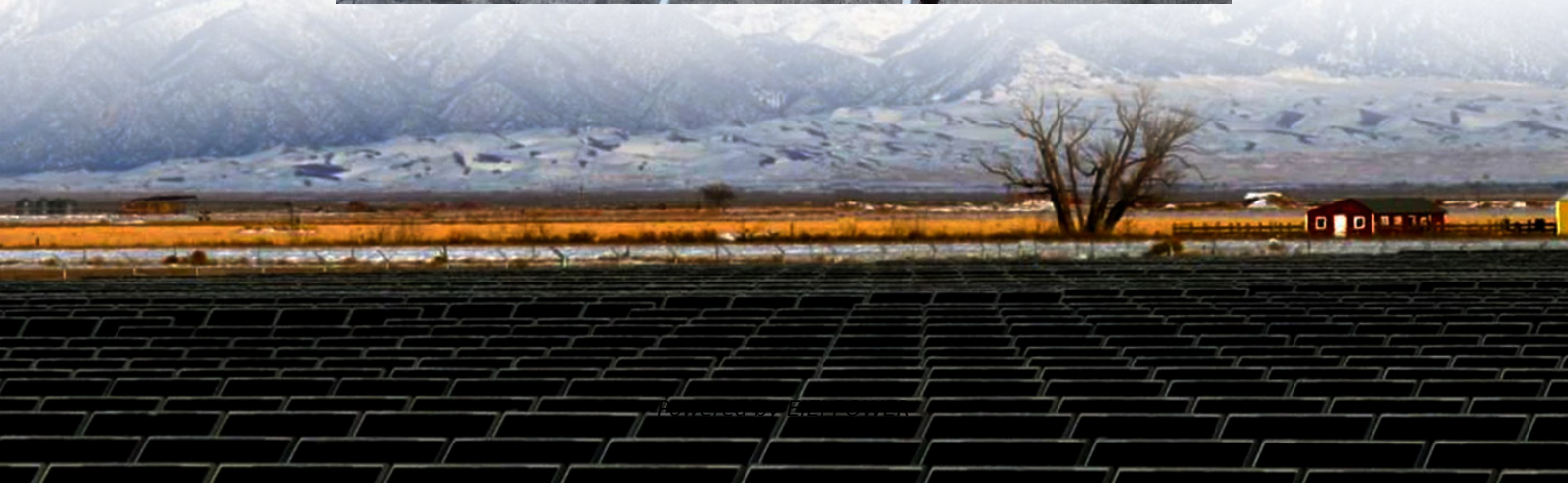
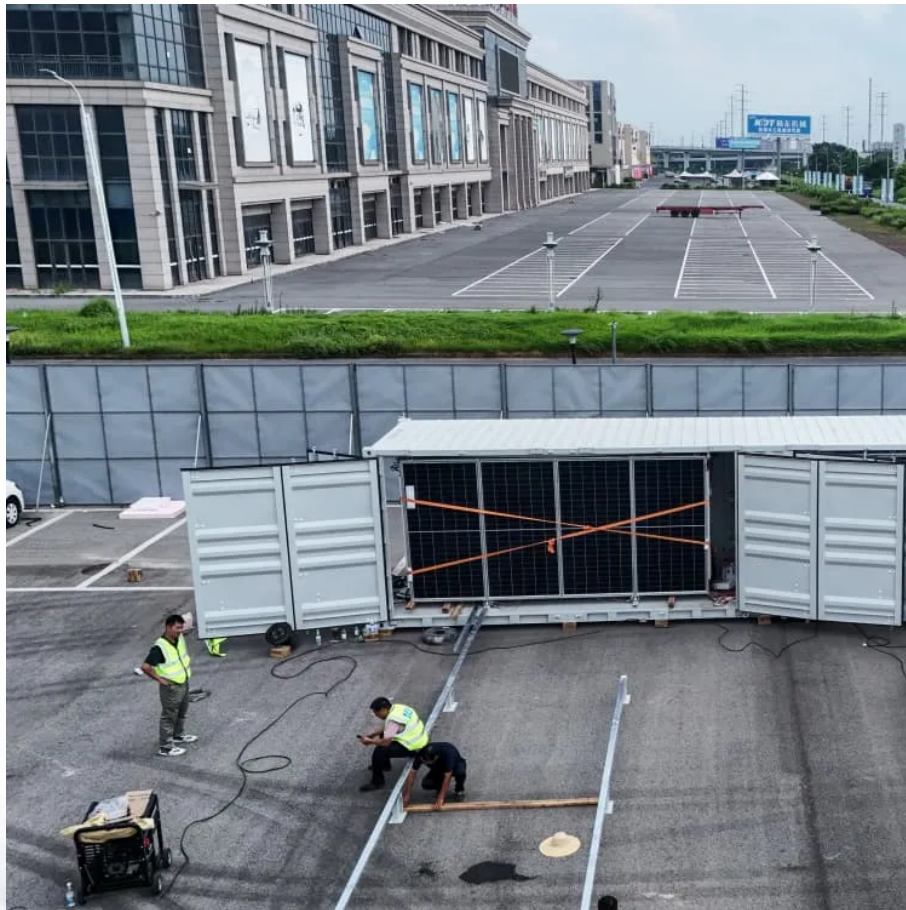


Power station uses Hungarian solar-powered container for bidirectional charging





Overview

Do EV charging stations need bidirectional power supplies?

Scenarios that call for bidirectional power supplies in EVs and EV charging stations include: EV supplying power back to the grid or to a microgrid in the home. EV charging station supplying power to an EV either from the grid or from stored energy depending on relative electricity prices.

Are EV charging stations unidirectional?

Current EV charging stations and EV onboard chargers (OBC) are unidirectional systems, but these new use cases are driving a transition to a bidirectional infrastructure. Scenarios that call for bidirectional power supplies in EVs and EV charging stations include: EV supplying power back to the grid or to a microgrid in the home.

Can bi-directional charging be a Mainstream Energy Solution?

Sigenergy is proud to be among the first to successfully implement bi-directional charging in a commercial setting. In partnership with NIO, a leading EV manufacturer in China, Sigenergy has demonstrated the viability of bi-directional charging as a mainstream energy solution.

What is a bi-directional charging system?

This shift is made possible by the cutting-edge bi-directional charging technology. Bi-directional charging allows EVs to function as mobile energy storage units. Equipped with this technology, EVs can not only draw power from the grid but also return electricity to it, or supply power to homes during peak demand or in the event of blackouts.



Power station uses Hungarian solar-powered container for bidirectional



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